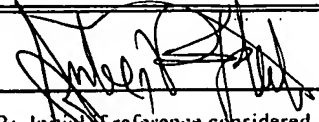


Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. <b>05569.0004.DVUS12</b>	Serial No. <b>New</b> <b>Application</b>
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		Applicant <b>McCafferty, J. et al.</b>	
		Filing Date <b>3-18-04</b>	Group

U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
<b>AOS</b>	A1	4,593,002	06/03/86	Dulbecco	435	172.3	
	A2	4,816,397	03/28/89	Boss <i>et al.</i>	435	68	
	A3	4,946,778	08/07/90	Ladner <i>et al.</i>	435	69.6	
	A4	5,091,513	02/25/92	Huston <i>et al.</i>	530	387	
	A5	5,223,409	06/29/93	Ladner <i>et al.</i>	435	69.7	
	A6	5,403,484	04/04/95	Ladner <i>et al.</i>	435	235.1	
	A7	5,427,908	06/27/95	Dower <i>et al.</i>	435	5	
	A8	5,658,727	08/19/97	Barbas <i>et al.</i>	435	6	
	A9	5,688,666	11/18/97	Bass <i>et al.</i>	435	69.4	
	A10	5,750,373	05/12/98	Garrard <i>et al.</i>	435	69.4	
	A11	5,759,817	06/02/98	Barbas, C.	435	69.7	
	A12	5,770,356	06/23/98	Light <i>et al.</i>	435	5	
	A13	5,780,279	07/14/98	Matthews <i>et al.</i>	435	172.3	
	A14	5,821,047	10/13/98	Garrard <i>et al.</i>	435	5	
	A15	5,846,765	12/08/98	Matthew <i>et al.</i>	435	69.1	
<b>✓</b>	A16	5,849,500	12/15/98	Breitling <i>et al.</i>	435		
	A17	5,985,588	11/16/99	Breitling <i>et al.</i>	435	7.8	

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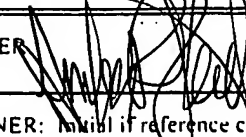
FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	WO 83/02393	07/21/83	WIPO				
	B2	EP 2 137 631	10/10/84	EP				
	B3	EP 0 168 933	01/22/86	EP				
	B4	WO 88/06630	09/07/88	WIPO				
	B5	WO 88/09344	12/01/88	WIPO				
	B6	EP 0 324 162 A1	12/24/88	EP				
	B7	AU-B-27617/88	07/06/89	AU				
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	B9	WO 90/05144	05/17/90	WIPO				
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	B11	WO 90/14430	11/29/90	WIPO				
	B12	WO 90/14443	11/29/90	WIPO				
	B13	WO 91/10737	07/25/91	WIPO				
	B14	WO 91/17271	11/14/91	WIPO				
	B15	WO 92/06204	04/16/92	WIPO				
	B16	WO 92/09690	06/11/92	WIPO				
	B17	WO 92/18619	10/29/92	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C1	Amit, A.G. <i>et al.</i> , "Three-Dimensional Structure of an Antigen-Antibody Complex at 2.8 Å Resolution." <i>Science</i> , 233:747-753 (August, 1986).

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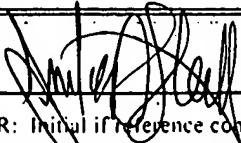
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	<del>C2</del>	<del>Armstrong, J. et al., "Domain Structure of Bacteriophage fd Adsorption Protein," <i>FEBS Lett.</i>, 135(1):167-172 (November, 1981).</del>
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AOS	C5	Beck, E. et al., "Nucleotide sequence of bacteriophage fd DNA," <i>Nucleic Acids Research</i> , 5(12):4495-4503 (1978).
	<del>C6</del>	<del>Berek, C. et al., "Molecular events during maturation of the immune response to oxazolone," <i>Nature</i>, 316:412-418 (August, 1985).</del>
	C7	Better, M. et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment," <i>Science</i> , 240:1041-1043 (May, 1988).
	C8	Bhat, T.N. et al., "Small rearrangements in structures of Fv and Fab fragments of antibody D1.3 on antigen binding," <i>Nature</i> , 347:483-485 (October, 1990).
	C9	Bird, R.E. et al., "Single chain antibody variable regions," <i>TIBTECH</i> , 9:132-137 (April, 1991).
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	C11	Boeke, J.D. et al., "Effects of Bacteriophage f1 Gene III Protein on the Host Cell Membrane," <i>Mol. Gen. Genet.</i> , 186:185-192 (1982).
	<del>C12</del>	<del>Boyle, W., "An Extension of the <sup>51</sup>Cr-Release Assay for the Estimation of Mouse Cytotoxins," <i>Transplantation</i>, 6(6):761-764 (1968).</del>
AOS	C13	Branden, C. et al., in <i>Introduction to Protein Structure</i> , Garland Publishing, Inc., New York and London, pp.26-29 (1991).
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	C15	Brownstone, A. et al., "Biological Studies with an Iodine-Containing Synthetic Immunological Determinant 4-Hydroxy-3-iodo-5-nitrophenylacetic Acid (NIP) and Related Compounds," <i>Immunology</i> , 10:481-492 (1966)

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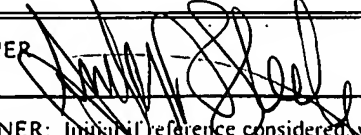
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. <b>05569.0004.DVUS12</b>	Serial No. <b>New</b> <b>Application</b>
<b>INFORMATION DISCLOSURE STATEMENT</b>		Applicant <b>McCafferty, J. et al.</b>	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C16	Brownstone, A. et al., "Chemical and Serological Studies with an Iodine-Containing Synthetic Immunological Determinant 4-Hydroxy-3-iodo-5-nitrophenylacetic Acid (NIP) and Related Compounds," <i>Immunology</i> , 10:465-479 (1966).
	C17	Carter, P. et al., "Improved oligonucleotide site-directed mutagenesis using M13 vectors," <i>Nucl. Acids Res.</i> , 13(12):4431-4443 (1985).
	C18	Casali, P. et al., "Human Monoclonals from Antigen-Specific Selection of B Lymphocytes and Transformation by EBV," <i>Science</i> , 234:476-479 (October, 1986).
	C19	Chaidaroglou, A. et al., "Function of Arginine-166 in the Active Site of <i>Escherichia coli</i> Alkaline Phosphatase," <i>Biochemistry</i> , 27:8338-8343 (1988).
	C20	Chang, C. N. et al., "Nucleotide sequence of the alkaline phosphatase gene of <i>Escherichia coli</i> ," <i>Gene</i> , 44:121-125 (1986).
	C21	Chaudhary, V.K. et al., "A rapid method of cloning functional variable-region antibody genes in <i>Escherichia coli</i> as single-chain immunotoxins," <i>Proc. Natl. Acad. Sci., USA</i> , 87:1066-1070 (February, 1990).
	C22	Chiang, Y.L. et al., "Direct cDNA Cloning of the Rearranged Immunoglobulin Variable Region," <i>BioTechniques</i> , 7(4):360-366 (1989).
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ADS	C24	Choo, Y. et al., "Selection of DNA binding sites for zinc fingers using rationally randomized DNA reveals coded interactions," <i>Proc. Natl. Acad. Sci., USA</i> , 91:11168-11172 (1994).
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	C27	Chuchana, P. et al., "Definition of the human immunoglobulin variable lambda (IGLV) gene subgroups," <i>Eur. J. Immunol.</i> , 20:1317-1325 (1990).
	C28	Clackson, T. et al., "'Sticky feet'-directed mutagenesis and its application to swapping antibody domains," <i>Nucl. Acids Res.</i> , 17(24):10163-10170 (1989).

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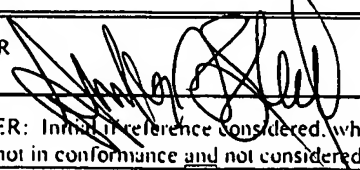
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
ADS	C29	Cunningham, C. et al., "Antibody engineering - how to be human," <i>Trends Biotechnology</i> , 10(4):112-113 (April, 1992).
ADS	C30	Curti, B.D., "Physical Barriers to drug delivery in tumors," <i>Critical Reviews in Oncology/Hematology</i> , 14:29-39 (1993).
ADS	C31	Cwirla, S.E. et al., "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proc. Natl. Acad. Sci. USA</i> , 87:6378-6382 (1990).
	<del>C32</del>	<del>De Bellis, D. et al., "Regulated expression of foreign genes fused to <i>lac</i> control by glucose levels in growth medium," <i>Nucl. Acids Res.</i>, 18(5):1311 (1990).</del>
	C33	De la Cruz et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> , 263(9):4318-4322 (1988).
	<del>C34</del>	<del>Dildrop, R., "A new classification of mouse V<sub>H</sub> sequences," <i>Immunol. Today</i>, 5(4):85-86 (1984).</del>
ADS	C35	Dillman, R.O., "Monoclonal Antibodies for Treating Cancer," <i>Annals of Internal Medicine</i> , 111:592-603 (1989).
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	<del>C37</del>	<del>Eckert, K.A. et al., "High fidelity DNA synthesis by the <i>Thermus aquaticus</i> DNA polymerase," <i>Nucl. Acids Res.</i>, 18(13):3739-3744 (1990).</del>
	<del>C38</del>	<del>Eisen, H.N., "Determination of Antibody Affinity For Haptens and Antigens by Means of Fluorescence Quenching," <i>Meth. Med. Res.</i>, 10:115-121 (1964).</del>
	<del>C39</del>	<del>Evan, G.I. et al., "Isolation of Monoclonal Antibodies Specific for Human c-myc Proto-Oncogene Product," <i>Mol. Cell. Biol.</i>, 5(12):3610-3616 (December, 1985).</del>
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	<del>C41</del>	<del>Galfre, G. et al., "Preparation of Monoclonal Antibodies: Strategies and Procedures," <i>Methods Enzymology</i>, 13:3-46 (1981).</del>
	<del>C42</del>	<del>Gherardi, E. et al., "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i>, 126:61-68 (1990).</del>

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AOS	C43	Glockshuber, R. <i>et al.</i> , "The Disulfide Bonds in Antibody Variable Domains: Effects on Stability, Folding in Vitro, and Functional Expression in <i>Escherichia coli</i> ," <i>Biochemistry</i> , 31:1270-1279 (1992).
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	C46	Gottesman, M.E. <i>et al.</i> , "Transcription Antitermination by Bacteriophage Lambda <i>N</i> Gene Product," <i>J. Mol. Biol.</i> , 140:57-75 (1980).
	C47	Grant, R.A. <i>et al.</i> , "Structure of the Filamentous Bacteriophage f1," <i>J. Biol. Chem.</i> , 256(1):539-546 (January, 1981).
	C48	Griffiths, G.M. <i>et al.</i> , "Somatic mutation and the maturation of immune response to 2-phenyl oxazolone," <i>Nature</i> , 312:271-275 (1984).
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	C50	Harper, M. <i>et al.</i> , "Antigen Specificity and Cross-Reactivity of Monoclonal Anti-Lysozyme Antibodies," <i>Molec. Immunol.</i> , 24(2):97-108 (1987).
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	C55	Hull, W.E. <i>et al.</i> , " <sup>31</sup> P Nuclear Magnetic Resonance Study of Alkaline Phosphatase: The Role of Inorganic Phosphate in Limiting the Enzyme Turnover Rate at Alkaline pH," <i>Biochemistry</i> , 15(7):1547-1561 (1976).

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ADS	C58	Izard, J.W. et al., "Signal peptides: exquisitely designed transport promoters," <i>Molecular Microbiology</i> , 13(5):765-773 (1994).
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ADS	C61	Kang, A.S. et al., "Antibody redesign by chain shuffling from random combinatorial immunoglobulin libraries," <i>Proc. Natl. Acad. Sci., USA</i> , 88(24):1120-11123 (1991).
	C62	<del>Kang, A.S. et al., "Linkage of recognition and replication functions by assembling combinatorial antibody Fab libraries along phage surfaces," <i>Proc. Natl. Acad. Sci., USA</i>, 88(10):4363-4366 (1991).</del>
ADS	C63	Kettleborough, C.A. et al., "Humanization of a mouse antibody by CDR-grafting: the importance of framework residues on loop conformation," <i>Protein Engineering</i> , 4(7):773-783 (1991).
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	C68	<del>Larrick, J.W. et al., "Rapid Cloning of Rearranged Immunoglobulin Genes from Human Hybridoma Cells Using Mixed Primers and the Polymerase Chain Reaction," <i>Biochem. Biophys. Res. Commun.</i>, 160(3):1250-1255 (May, 1989).</del>

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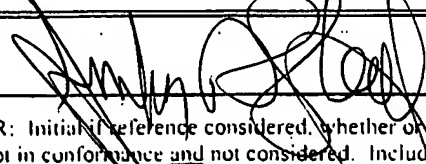
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	<del>C69</del>	<del>Lesk, A. M. et al., "Elbow motion in the immunoglobulins involves a molecular ball-and-socket joint," <i>Nature</i>, 335:188-190 (September, 1988).</del>
	<del>C70</del>	<del>Mäkelä, O. et al., "Inheritance of Antibody Specificity V Anti-2-Phenyloxazolone in the Mouse," <i>J. Exp. Med.</i>, 148:1644-1660 (December, 1978).</del>
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ADS	C72	Marvin, D.A. et al., "Molecular Models and Structural Comparisons of Native and Mutant Class I Filamentous Bacteriophages Ff m(fd, fl, M13), Ifl and lKe," <i>J. Mol. Biol.</i> , 235:260-286 (1994).
	<del>C73</del>	<del>McCafferty et al., "Phage Antibodies: Filamentous Phage Displaying Antibody Variable Domains," <i>Nature</i>, 348:552-554 (1990).</del>
	<del>C74</del>	<del>McCracken, S. et al., "Functional and Structural Properties of Immobilized Subunits of <i>Escherichia coli</i> Alkaline Phosphatase," <i>J. Biol. Chem.</i>, 255(6):2396-2404 (March, 1980).</del>
	<del>C75</del>	<del>Melamed, M.D. et al., "Requirements for the establishment of heterohybridomas secreting monoclonal human antibody to rhesus (D) blood group antigen," <i>J. Immunological Methods</i>, 104:245-251 (1987).</del>
	<del>C76</del>	<del>Milstein F.R.S., C., "The Croonian Lecture, 1989 Antibodies: a paradigm for the biology of molecular recognition," <i>Proceedings of the Royal Society of London</i>, 239(1294):1-16 (1990).</del>
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	<del>C78</del>	<del>Nagai, K. et al., "Synthesis and Sequence-Specific Proteolysis of Hybrid Proteins Produced in <i>Escherichia coli</i>," <i>Methods Enzymology</i>, 153:461-481 (1987).</del>
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ADS	C80	Newman, A.K. et al., "DNA Sequences of Structural Genes for <i>Eco</i> RI DNA Restriction and Modification Enzymes," <i>J. Biological Chemistry</i> , 256(5):2131-2139 (1981).
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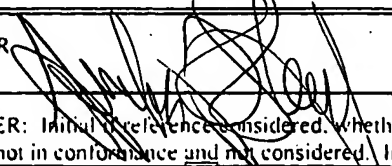
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	App. Docket No. <b>05569.0004.DVUS12</b>	Serial No. <b>New</b> <b>Application</b>
<b>INFORMATION DISCLOSURE STATEMENT</b>		Applicant <b>McCafferty, J. et al.</b>	
		Filing Date <b>3-18-04</b>	Group
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	<del>C83</del>	<del>Orlandi, R. <i>et al.</i>, "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i>, 86:3833-3837 (May, 1989).</del>
ADS	C84	Osband, M.E. <i>et al.</i> , "Problems in the investigational study and clinical use of cancer immunotherapy," <i>Immunology Today</i> , 11(6):193-195 (1990).
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	<del>C87</del>	<del>Perelson, A.S., "Immune Network Theory," <i>Immunol. Reviews</i>, 110:5-36 (1989).</del>
	C88	<del>Pratt, D. <i>et al.</i>, "Conditional Lethal Mutants of the Small Filamentous Coliphage M13 II. Two Genes for Coat Proteins," <i>Virology</i>, 39:42-53 (1969).</del>
ADS	C89	Rasched, I. <i>et al.</i> , "Ff Coliphages: Structural and Functional Relationships," <i>Microbiological Reviews</i> , 50(4):401-427 (1986).
	<del>C90</del>	<del>Riechmann, L. <i>et al.</i>, "Reshaping human antibodies for therapy," <i>Nature</i>, 332:323-327 (March, 1988).</del>
	C91	Rossomando, E.F. <i>et al.</i> , "Studies on the Bacteriophage f1 I. Alkali-induced Disassembly of the Phage into DNA and Protein," <i>J. Mol. Biol.</i> , 36:387-399 (1968).
	C92	Saiki, R.K. <i>et al.</i> , "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> , 239:487-491 (January, 1988).
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	C95	Schaaper, R.M. <i>et al.</i> , " <i>Escherichia coli</i> mutT Mutator Effect during <i>in Vitro</i> DNA Synthesis," <i>J. Biol. Chem.</i> , 262(34):16267-16270 (December, 1987).

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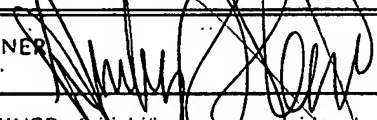
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. <b>05569.0004.DVUS12</b>	Serial No. New Application
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	<del>C96</del>	<del>Schapper, R.M., "Mechanisms of mutagenesis in the <i>Escherichia coli</i> mutator mutD5: Role of DNA mismatch repair," <i>Proc. Natl. Acad. Sci., USA</i>, 85:8126-8130 (November, 1988).</del>
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	<del>C99</del>	<del>Short et al., "Lambda ZAP: A Bacteriophage Lambda Expression Vector with In Vivo Excision Properties," <i>Nucleic Acids Research</i>, 16(15):7583-7600 (August, 1988).</del>
	<del>C100</del>	<del>Skerra, A. et al., "Assembly of a Functional Immunoglobulin F<sub>1</sub> Fragment in <i>Escherichia coli</i>," <i>Science</i>, 240:1038-1040 (May, 1988).</del>
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	<del>C102</del>	<del>Smith, G.P., "Filamentous Phage Assembly: Morphogenetically Defective Mutants That Do Not Kill the Host," <i>Virology</i>, 167:156-165 (1988).</del>
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	<del>C107</del>	<del>Van Wezenbeek, P. et al., "Nucleotide sequence of the filamentous bacteriophage M13 DNA genome: comparison with phage fd," <i>Gene</i>, 11:129-148 (1980).</del>
	<del>C108</del>	<del>Venkitaraman, A.R., "Use of modified T7 DNA polymerase (sequence version 2.0<sup>TM</sup>) for oligonucleotide site-directed mutagenesis," <i>Nucl. Acids Res.</i>, 17(8):3314 (April, 1989).</del>

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	<del>C110</del>	<del>Von Boehmer, H. et al., "The Separation of Different Cell Classes from Lymphoid Organs. IX. A Simple and Rapid Method for Removal of Damaged Cells From Lymphoid Cell Suspensions," <i>J. Immunol. Methods</i>, 2:293-301 (1973).</del>
AOS	C111	Waldmann, T.A., "Monoclonal Antibodies in Diagnosis and Therapy." <i>Science</i> , 252:1657-1662 (June, 1991).
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